PROJECT DESCRIPTION

GENERAL

THIS PORTION OF THE PROJECT INVOLVES THE INSTALLATION OF A TEMPORARY TRAFFIC CONTROL SIGNAL AT THE EAST AND WEST ENDS OF RETAINING WALL NO. 01213RO ON MD 135 IN ALLEGHENY COUNTY. MD 135 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA FOUR-PHASE. FULL-TRAFFIC-ACTUATED MODE WITH EASTBOUND AND WESTBOUND MD 135 OPERATING AS SEPERATE PHASES. AN ALL RED CLEARANCE PHASE WILL BE PROVIDED.

CONTROLLER REQUIREMENTS

INSTALL A FULL-TRAFFIC-ACTUATED. EIGHT-PHASE CONTROLLER WITH ONE (1) FOUR-CHANNEL. TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIER. INTERSECTION MONITOR WITH BATTERY BACKUP FOR PHONE DROP AND ASSOCIATED HARNESSES HOUSED IN A NEMA SIZE "5" POLE MOUNTED CABINET ON WEST SIDE OF RETAINING WALL.

PHONE DROP

THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT (410) 787-7635 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SNYDER THE NEAREST STREET ADDRESS. ZIP CODE. AND PHONE NUMBER.

MAINTENANCE OF TRAFFIC

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT.

STANDARD NO. MD-104.02-09 (FLAGGING OPERATION)

STANDARD NO. MD-104.02-01 (SHOULDER WORK)

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MR. GEORGE H. SMALL ASSISTANT DISTRICT ENGINEER - TRAFFIC PHONE: (301) 729-8444

MR. GEORGE FRANKENBERRY ASSISTANT DISTRICT ENGINEER - MAINTENANCE PHONE: (301) 729-8457

MR. ROBERT ROWAN DISTRICT UTILITY ENGINEER PHONE: (301) 729-8420

MR. RICHARD L. DAFF, SR. CHIEF, TRAFFIC OPERATIONS DIVISION PHONE: (410) 787-7630

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

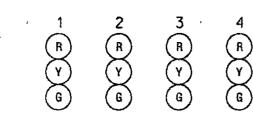
ITEM NO.	QUANTITY	DESCRIPTION
963010	1 EACH	FOUR-CHANNEL, TIME-DELAY-OUTPUT, LOOP DETECTOR AMPLIFIER
971016	1 EACH	EIGHT-PHASE, FULL-TRAFFIC-ACTUATED CONTROLLER WITH INTERSECTION MONITOR HOUSED IN A NEMA SIZE "5" POLE MOUNTED CABINET

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA

SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINETS. ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

PHASE CHART

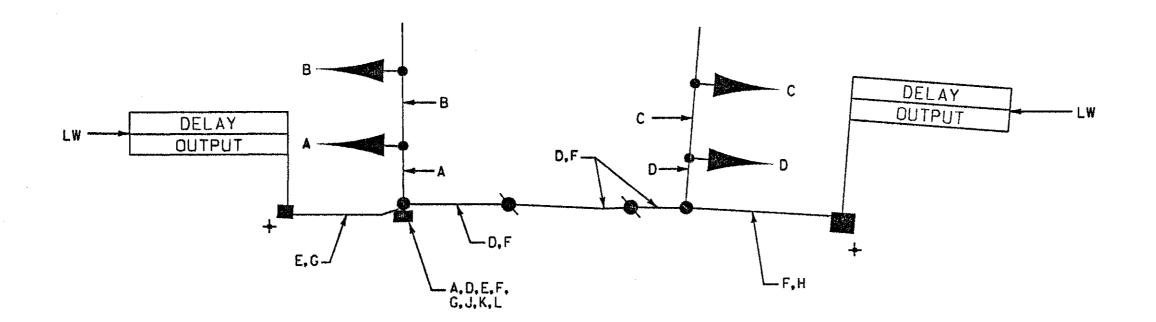


PHASE I CLEARANCE	R	R	R	R	4
PHASE 2	G	G	R	R	
2 CHANGE	Υ	Υ	. R	R	
PHASE 3 CLEARANCE	R	R	R	R	~
PHASE 4	R	R	G	G	4-
4 CHANGE	R	R	Y	Y	-
FLASHING OPERATION	FL/R	FL/R	FL/R	FL/R	+

WIRING KEY

- 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- 5-CONDUCTOR ELECTRICAL CABLE (NO. 12 A.W.G.)
- 2-CONDUCTOR ELECTRICAL CABLE ALUMINUM SHIELDED (NO. 14 A.W.G.)
- G STRANDED BARE COPPER H GROUND WIRE (NO. 6 A.W.G.)
- 1-CONDUCTOR ELECTRICAL CABLE (NO. 4 A.W.G.)
- LW LOOP WIRE (NO. 14 A.W.G.)
- + $\frac{3}{4}$ IN. X 10 FT. GROUND ROD

WIRING DIAGRAM



EQUIPMENT LIST "B"

ATEGORY CODE NO.	QUANTITY	DESCRIPTION
114245	50 L.F.	24 INCH WHITE REMOVABLE PREFORMED PAVEMENT LINE
114300	2600 L.F.	8 IN. REMOVABLE PATTERNED BLACK LINE MASK TAPE FOR MAINTENANCE OF TRAFFIC
120560	1 EACH	MAINTENANCE OF TRAFFIC
203030	2 C.Y.	TEST PIT EXCAVATION
802501	1300 L.F.	NO. 6 A.W.G. STRANDED BARE COPPER GROUND WIRE
805010	30 L.F.	1 INCH ELECTRICAL CONDUIT - GALVANIZED RISER
805050	2 EACH	WEATHER HEAD. 3 INCH
8051351	250 L.F.	3 INCH SCHEDULE 80 RIGID PVC CONDUIT- TRENCHED
805160	30 L.F.	1 INCH LIQUID-TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
807400	1 EACH	ELECTRICAL UTILITY SERVICE EQUIPMENT. 120/240 VOLTS. 60 AMPS
810010	45 L.F.	ELECTRICAL CABLE - 1 CONDUCTOR (NO. 4 A.W.GTHHN/THWN)
811001	2 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
818030	2 EACH	STEEL POLE WITH A SINGLE 38 FOOT MAST ARM
837001	2 EACH	GROUND ROD -34INCH DIAMETER × 10 FOOT LENGTH
860272	12 EACH	12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION
861104	1300 L.F.	ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED)
861107	100 L.F.	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.)
862101	1000 L.F	LOOPWIRE ENCASED IN FLEXIBLE TUBING (NO. 14 A.W.G.)
862102	250 L.F.	SAWCUT FOR SIGNAL
869102	1200 L.F.	STEEL SPAN WIRE -3/8INCH DIAMETER
871201	1 EACH	INSTALL CONTROLLER AND CABINET - POLE MOUNT
801004	6 C.Y.	CONCRETE FOR SIGNAL FOUNDATION
800000	2 EACH	50 FOOT CLASS II WOOD POLE
800000	1200 L.F.	ELECTRICAL CABLE - 5 CONDUCTOR NO. 12 A.W.G.
800000	LUMP SUM	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT

TSP-3



Whitman, Requardt and Associates. LLP

(410) 235-3450

801 South Caroline Street

Baltimore, Maryland 21231

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION

GENERAL INFORMATION SHEET RETAINING WALL REPAIRS TO STRUCTURE NO. 01213RO ALONG MD 135 EBR @ MP 2.8

DRAWN BY: B. DONOWAY F.A.P. NO. CHECKED BY: N. LEARY S.H.A. NO. SCALE: NONE ALLEGHENY COUNTY: 10/7/2004 DATE: LOG MILE: 0/0/3502.50

4354 SHEET NO. T.I.M.S. NO. 6272

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